

Appl. No. 09/885,804
Amdt. Dated September 15, 2005
Reply to Office action of June 16, 2005
Attorney Docket No. P11870-US2
EUS/J/P/05-3213

REMARKS/ARGUMENTS

Claim Amendments

The Applicant has amended claims 1, 13, 14, 16, and 17; claims 2 and 18 have been canceled. Applicant respectfully submits no new matter has been added. Accordingly, claims 1, 3-17 and 19-28 are pending in the application. Favorable reconsideration of the application is respectfully requested in view of the foregoing amendments and the following remarks.

Examiner Objections – Drawings

The Drawings were objected to under 37 CFR 1.83(a). A correction to the drawing is shown on the enclosed sheet. The Examiner's approval of the drawing change is respectfully requested.

The drawings were objected to because the drawings must show every feature of the invention specified in the claims. The 1) "interference canceller coupled to the channel emulator" and 2) "a symbol estimator and interferer sequence detector" in claims 13 and 14 are noted as not being depicted in the figures. Further, 3) "the maximal ratio combiner coupled to the controller" claimed in claim 14 is also not depicted in the figures.

The Applicant respectfully disagrees with the conclusions regarding the above claimed features. Regarding 1), the interference canceller and the channel emulator are part of block 525. Rather than the actual term of "channel emulator" an equivalent "estimated version of the channel" is generated in block 525 (see figure 5, page 19, para. 32). The interferer sequence detector functions, though not explicitly labeled, are performed in block 650 of Figure 6, i.e., "interferer sequences are detected in block 650... (see figure 6, para. 34, line 17). Regarding 2), the symbol estimator functions are described in paragraph 34, lines 18-19 and the functions depicted in block 655 of Figure 6. Regarding 3), the maximal (should be "maximum") ratio combiner is depicted in Fig. 5, label 515. The controller, though not labeled as such, is described in the functions depicted in blocks 735 and 745 of Figure 7, (see Figure 7, para. 37, lines 23-25). The Examiner's approval of these drawings is respectfully requested.

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Examiner Objections - Claims

Claims 1, 7, 14, 16, 17 and 23 were objected to because of informalities. Again, the Applicant appreciates the Examiner's thorough review of the claims.

The Applicant respectfully traverses the objection to "the interference" in claims 1, 17 and 23. The preamble describes "...a communications signal containing interference...", thus providing antecedent basis for the subsequent term "the interference."

The Applicant appreciates the notice of the errors in claim 14 and 16 regarding the transmitter/antenna mistake and the claims have been amended to correct the errors. It is respectfully submitted that "the controller" in claim 16 line 6 is correct.

Allowable Subject Matter

The Applicant gratefully acknowledges the allowance of claims 7-16 and 23-28. The Applicant notes with appreciation the conditional allowance of claims 2, 5, 18 and 21. No amendments have been made to narrow the scope of the pending claims or to create any sort of estoppel.

Claim Rejections – 35 U.S.C. § 103 (a)

Claims 1, 3, 4, 6 and 17, 19, 20 and 22 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Lilleberg et al (US5,905,946) in view of Richardson (US4,878,251). In order to expedite allowance of this application, the Applicant has canceled the claims 2 and 18 without prejudice. Therefore, this rejection with respect to these claims is deemed to be moot. The Applicant has amended claims 1 and 17 to incorporate the allowable limitations of claims 2 and 18 respectively. Claims 1 and 17 now contain allowable subject matter. The Examiner's consideration of the amended claims is respectfully requested.

Claims 3, 4, 6, 19, 20 and 22 depend from amended independent claims 1 and 17 respectively and recite further limitations in combination with the novel elements of

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claims 1 and 17. Therefore, the Applicant respectfully requests the withdrawal of the rejection of claims 1, 3, 4, 6 and 17, 19, 20 and 22.

Prior Art Not Relied Upon

In paragraph 11 on page 6 of the Office Action, the Examiner stated that the prior art made of record and not relied upon is considered pertinent to the Applicant's disclosure.

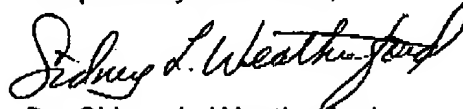
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CONCLUSION

In view of the foregoing remarks, the Applicant believes all of the claims currently pending in the Application to be in a condition for allowance. The Applicant, therefore, respectfully requests that the Examiner withdraw all rejections and issue a Notice of Allowance for all pending claims.

The Applicant requests a telephonic interview if the Examiner has any questions or requires any additional information that would further or expedite the prosecution of the Application.

Respectfully submitted,



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